

We Claim:

1. A process comprising:
feeding a solution selected from water, and a mixture of caustic and at least one organic solvent through multiple pressure sources to a reactor having an agitator with blades and stationary pressure sources aimed at the agitator blades; and emptying the reactor; wherein the agitator is rotated while the solution is fed to the reactor.
2. The process according to claim 1 wherein, the multiple pressure sources are hoses equipped with nozzles.
3. The process according to claim 2 wherein, the hoses are made of 316 stainless steel.
4. The process according to claim 3 wherein, the solution is fed to the reactor at a pressure from 100 to 700 bar.
5. The process according to claim 1 wherein, the reactor is equipped with a heat exchanger in an external loop and the heat exchanger and external loop are cleaned with an aqueous base at a temperature of from 20°C to 150°C.
6. The process according to claim 5 wherein, the heat exchanger and external loop are cleaned with caustic at a temperature of from 90°C to 150°C.
7. A process for cleaning a reactor comprising:
feeding a solution selected from an aqueous base, an organic solvent, and combinations thereof to the reactor;
and emptying the reactor; wherein, the reactor is selected from the group consisting of a plate-frame heat exchanger, a plate-fin heat exchanger, and a spiral-plate heat exchanger.
8. The process according to claim 7 wherein, the solution is a combination of an aqueous base and an organic solvent and comprises from 15 weight percent to 30 weight percent aqueous base and from 40 weight percent to 60 weight percent organic solvent, based on the total weight of the solution, and the remainder water.
9. The process according to claim 8 wherein, the organic solvent is isopropanol.
10. The process according to claim 7 wherein, the solution is acetone.